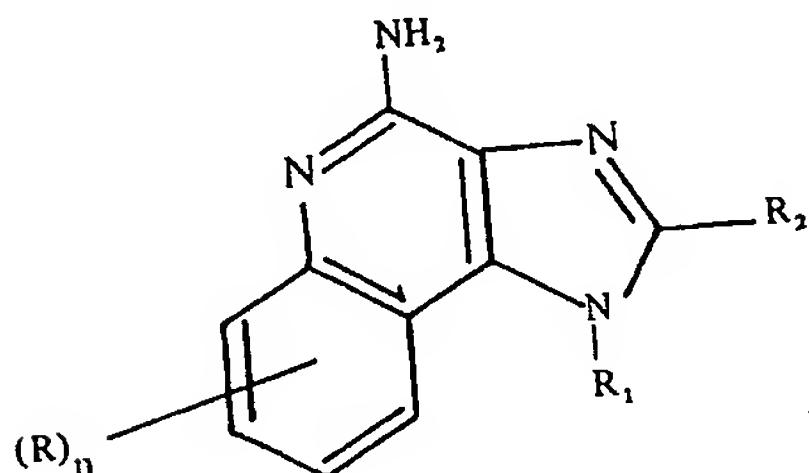


[11] [21] 73534

[54] 1H-IMIDAZO[4,5-c]QUINOLINE-4-AMINES, THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING CERTAIN SUCH COMPOUNDS

[22] 16.11.1984
 [31] 553158 [32] 18.11.1983 [33] U.S.A.
 [51] Int. Cl.⁵ C07D 471/04; A61K 31/47
 [71] Riker Laboratories, Inc., Saint Paul, Minn., U.S.A.
 [74] Dr. Reinhold Cohn and Partners, P.O.B. 4060, Tel Aviv

[57] Antiviral compounds of the formula



wherein R¹ is alkyl, cycloalkyl or cycloalkylalkyl up to ten carbon atoms, hydroxyalkyl of up to six carbon atoms, acyloxyalkyl wherein the acyloxy moiety is C₂-C₄ alkanoyloxy or benzoxyloxy, and the alkyl moiety which is either straight or branched chain, cycloalkyl or cycloalkylalkyl contains up to about

הו-אimidازו[4,5-c]קווינולין-
-4-אמין, הכנתם ותכשורי
רוקחות המבילים תרכובות
מסויימות כאלה

דו רינהולד כהן ושותפי,
ת. 4060, תל-אביב

[54] PUMP AND SYSTEM FOR DELIVERING CONTROLLED QUANTITIES FLUID

[22] 12.11.1984
 [31] 551447 [32] 14.11.1983
 [51] Int. Cl.⁵ F04B 15/04; F16J
 [71] Atochem North America, Philadelphia, Pa., U.S.A.
 [74] Dr. Reinhold Cohn and P.O.B. 4060, Tel Aviv

six carbon atoms, benzyl, (phenyl)ethyl or phenyl, the benzyl, (phenyl)ethyl or phenyl substituent being optionally substituted on the benzene ring by one or two alkyl, cycloalkyl and cycloalkylalkyl of up to about four carbon atoms, C₁-C₄ alkoxy or halogen, with the proviso that if said benzene ring is substituted by two of said moieties, then said moieties together contain no more than 6 carbon atoms; R₂ is hydrogen, alkyl, cycloalkyl or cycloalkylalkyl of up to eight carbon atoms; and each R is C₁-C₄ alkoxy carbon atoms, cycloalkyl or cycloalkylalkyl of up to about four carbon atoms, and halogen, and n is 0, 1 or 2, with the proviso that if n is 2, then said groups together contain no more than 6 carbon atoms, and pharmaceutically acceptable salts thereof.

[57] A pump apparatus for containing and precisely metering pulses of small quantities of hazardous and reactive fluid comprising a unitary piston housing (111) having interior cylindrical walls, said housing having an elongated bore (115) extending from a first open end (112) to a position proximate a second end, said elongated bore having a pumping chamber region (116) adjacent the second end, a pumping fluid inlet means (114) to said pumping chamber, a pumping fluid outlet means (117) from said pumping chamber, a piston (118) and rotating piston (119) within said piston housing, the piston being positioned in a uniting relationship with the interior of said piston housing with a clearance therebetween during a pumping cycle for reciprocating movement within said elongated bore of said housing, from a first position in which said piston substantially fills the space within said pumping chamber and displaces pumped fluid from said pumping chamber to a second position in which said piston is substantially removed from said pumping chamber and draws pumping fluid into said chamber, a barrier fluid inlet

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